

# **SECTOR**

## **eCollision Report Fields Referential Integrity**

### **Version 1.1**

**Washington State Department of Transportation**

August 2, 2005

#### **Disclaimer**

The contents of this document are current as of the date shown. Efforts are currently underway to re-design the officer and citizen collision report forms. This may result in some existing data fields being revised, or new data fields being added.

Any software that creates an electronic collision record must incorporate the referential integrity contained in this document in order for that collision record to be accepted by the Washington State Department of Transportation for inclusion into the Collision Location and Analysis System (CLAS).

For further information on this subject, contact:

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The following describes the referential integrity (relationships) among the eCollision report fields. These relationships reflect the structure of the Collision Location and Analysis System (CLAS).

- I. Collision-level fields: those fields that describe the collision conditions and occur only once per collision
- II. Location-level fields: those fields that describe the location where the collision occurred. A location may occur only once per collision. The location methods are mutually exclusive - there can only be 1 method used to describe the location of a collision. There are four methods of describing a collision location, depending on the jurisdiction in which the collision occurred. They are:
  - a. State Route location
  - b. County location
  - c. City Street location
  - d. Miscellaneous location
- III. Unit-level fields: those fields that are common between all types of units involved in a collision. The units must be associated with the collision in which they occurred. At a minimum, a collision must include either a Motor Vehicle or a Pedalcyclist. There are four types of units that can be involved in a collision. They are:
  - a. Motor Vehicle
  - b. Pedestrian
  - c. Pedalcyclist
  - d. Property Owner
- IV. Motor Vehicle-level fields: those fields that describe a motor vehicle involved in a collision. If there is no pedalcyclist involved in the collision, then there must be at least 1 motor vehicle involved. The motor vehicle (if present) must be associated with a unit involved in the collision. There may be 0 (if a pedalcyclist is involved), 1 or more motor vehicles involved in a collision.
- V. Commercial Motor Carrier-level fields: those fields that describe a commercial motor carrier involved in a collision. A commercial motor carrier is a class of motor vehicle. If there is a commercial motor carrier involved in the collision it must be associated with a motor vehicle involved in the collision. There may be 0, 1 or more commercial motor carriers involved in a collision.

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- VI. Motor Vehicle Driver-level fields: those fields that describe a motor vehicle driver involved in a collision. The driver (if present) must be associated with a motor vehicle unit that is involved in the collision. There is either 0 or 1 drivers per motor vehicle unit.
- VII. Motor Vehicle Passenger-level fields: those fields that describe a motor vehicle passenger involved in a collision. The passenger (if present) must be associated with a motor vehicle unit that is involved in the collision. There may be 0, 1 or more passengers per motor vehicle unit.
- VIII. Witness-level fields: those fields that describe a witness involved in a collision. There may be 0, 1 or more witnesses involved in a collision.
- IX. Pedestrian-level fields: those fields that describe a pedestrian involved in a collision. The pedestrian (if present) must be associated with a unit involved in the collision. There may be 0, 1 or more pedestrians involved in a collision.
- X. Pedalcyclist-level fields: those fields that describe a pedalcyclist involved in a collision. If there is no motor vehicle involved in the collision, then there must be at least 1 pedalcyclist involved. The pedalcyclist (if present) must be associated with a pedalcycle unit involved in the collision. There may be 0 (if a motor vehicle is involved), 1 or more pedalcyclists involved in a collision.
- XI. Pedalcyclist driver-level fields: those fields that describe a pedalcyclist driver involved in a collision. The pedalcyclist driver (if present) must be associated with a pedalcycle unit involved in the collision. There is either 0 or 1 drivers per pedalcycle unit.
- XII. Pedalcyclist passenger-level fields: those fields that describe a pedalcyclist-passenger involved in a collision. The pedalcyclist passenger (if present) must be associated with a pedalcycle unit involved in the collision. There may be 0, 1 or more passengers per pedalcycle unit.
- XIII. Property owner-level fields: those fields that describe a property owner involved in a collision. The property owner (if present) must be associated with a property unit involved in the collision. There may be 0, 1 or more property owners involved in a collision.